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Abstract, of THE Disclosure

Low-Emission Adhesives Based On An Aqueous, Protective-Colloid-Free Dispersion Of Vinyl Acetate-Ethylene Copolymers

The invention provides low-emission adhesives based on an aqueous, protective-colloid-free polymer dispersion or water-redispersible dispersion powders, obtainable therefrom, of vinyl acetate-ethylene copolymers, obtainable by free-radically initiated emulsion polymerization, in aqueous medium and in the presence of one or more emulsifiers, of a comonomer mixture comprising

- a) from 5 to 50% by weight of ethylene,
- b) from 20 to 80% by weight of at least one vinyl ester from the group of vinyl esters of unbranched or branched carboxylic acids having 1 to 9 carbon atoms whose homopolymers have a glass transition temperature $T_g > 0^\circ\text{C}$,
- c) from 5 to 70% by weight of at least one vinyl ester from the group of vinyl esters of branched carboxylic acids having 8 to 13 carbon atoms whose homopolymers have a glass transition temperature $T_g < 0^\circ\text{C}$,
- d) from 0.5 to 10% by weight of at least one ethylenically unsaturated monocarboxylic or dicarboxylic acid having 3 or 4 carbon atoms,
- e) from 0 to 10% by weight of at least one ethylenically unsaturated, hydroxylalkyl-functional comonomer,
- f) from 0 to 10% by weight of further, mono- or polyethylenically unsaturated comonomers,

the % by weight being based in each case on the overall weight of the comonomers and adding up to 100% by weight, and the dispersion obtained therewith being dried if desired.